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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONCIDATATION
09/910,542	07/20/2001	James J. Alwan	100718.270	CONFIRMATION NO. 3046
759 Wayne M. Ken	00/02/2004		EXAM	
Hale and Dorr Ll 60 State Street	LP		GUHARAY	KARABI
Boston, MA 02	109		ART UNIT	PAPER NUMBER
			2879	
	76	· · · · · · · · · · · · · · · · · · ·	DATE MAILED: 06/02/2004	•

Please find below and/or attached an Office communication concerning this application or proceeding.

	•	Application N .	Applicant(s)			
Offic A	Action Summary	09/910,542	ALWAN ET AL.			
		Examin r	Art Unit			
The MAII IN	GDATE fable community	Karabi Guharay	2879			
Period for Reply	G DATE f this communication app	ears on the cover sheet with the o	orrespondence address			
Extensions of time may be after SIX (6) MONTHS from the period for reply specified for reply is specified from the specified from the Any reply received by the specified from the	TATUTORY PERIOD FOR REPLY TE OF THIS COMMUNICATION. be available under the provisions of 37 CFR 1.13 com the mailing date of this communication. Excified above is less than thirty (30) days, a reply expecified above, the maximum statutory period with a set or extended period for reply will, by statute, or expending the complex of the mailing of the complex of the mailing of the complex of the complex of the mailing of the complex of the	6(a). In no event, however, may a reply be tin within the statutory minimum of thirty (30) day Il apply and will expire SIX (6) MONTHS from	nely filed s will be considered timely. the mailing date of this communication			
Status		•				
1) Responsive to	o communication(s) filed on	and the second second second second	The second secon			
2a) This action is		action is non-final.				
	Dication is in condition for allowand	ce except for formal matters				
closed in acco	ordance with the practice under Ex	Darte Quavie 1935 CD 14 4E	secution as to the merits is			
Disposition of Claims	· , , , , , , , , , , , , , , , , , , ,	parto dudylo, 1950 C.D. 11, 45	3 0.6. 213.			
	•					
4)⊠ Claim(s) <u>11-1</u>	<u>8,21-28 and 31-46</u> is/are pending i	n the application.				
4a) Of the abo	ve claim(s) is/are withdrawr	from consideration.	•			
5) Claim(s)	_ is/are allowed.					
6)⊠ Claim(s) <u>11-18</u>	8, 21-28, and 31-46 is/are rejected					
7) Claim(s)	_ is/are objected to.					
8) Claim(s)	_ are subject to restriction and/or e	election requirement.				
Application Papers			•			
9) ☐ The specification	on is objected to by the Examiner.		.'			
10)☐ The drawing(s)	filed on is/are: a) accept	ted or h) objected to but the F	· .			
Applicant may no	ot request that any objection to the dra	wing(s) he hold in showers a Control	caminer.			
Replacement dra	awing sheet(s) including the correction	is required if the drawing(s) is at	37 CFR 1.85(a).			
11) The oath or dec	claration is objected to by the Exam	niner Note the attached Office A	cted to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C.		or. Hote the attached Office A	ction or form PTQ-152.			
12) Acknowledgmer	nt is made of a claim for foreign pri	ority under 35 U.S.C. § 119(a)-(d) or (f).			
	me * c) None of:					
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No.						
Copies of the certified copies of the priority documents have been received in this National Stage						
application	in irom the international Bureau (P	CT Rule 17 2(a))	, ,			
See the attached	detailed Office action for a list of t	he certified copies not received.	-			
Attachment(s)		•				
1) Notice of References Cite	od (PTO 200)	_				
Notice of Draftsperson's F	Patent Drawing Review (PTO-048)	4) Interview Summary (PT	O-413)			
 Information Disclosure State 	atement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail Date. 5) Notice of Informal Pate	It Application (PTO-152)			
Paper No(s)/Mail Date B. Patent and Trademark Office	<u>_</u> ·	6) Other:				
S. Patent and Trademark Office TOL-326 (Rev. 1-04)	Office Action	Summary				

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Remarks/Argument, filed on 01 March 2004, has been entered.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 11, 13, 15, 17, 21 23, 25, 27, 31, 33, 35, 37, 39, 41, 43 and 45-46 are rejected under 35 U.S.C. 102(e) as being anticipated by Leroux et al. (US 5534744).

Regarding claims 11, 21, 31, and 39, Leroux et al. disclose a cathode substrate including a substrate 2 (Fig 6) a cap layer (silica layer 4 and layer 52), an anti-reflective coating or light blocking layer (52, here layer 52 is an light absorbing layer, line 35-36 of Col. 6, light absorbing layer does not reflect light thus it is also anti-reflective) included within it (see col. 5, lines 49-50, under layer 52), and an array of emitter tips 12 formed on the cap layer.

Referring to claims 13, 18, 23, 28, 33, 38, 41 & 46, it is noted that the subject product-by-process claim limitation is not afforded patentable weight (see MPEP 2113).

Claims 15, 25, 35, and 43 are rejected for the same reason as claims 11, 21, 31, and 39.

Claims 17, 27, 37, and 45 are rejected for the same reason as claims 11, 21, 31, and 39.

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103(a).

Claims 12, 14, 16, 22, 24, 26, 32, 34, 36, 40, 42, and 44 are rejected under 35 U.S.C. 103(a) as being unpatentable over Leroux et al.

Referring to claims 12, 22, 32, and 40, Leroux et al. disclose a cathode substrate as recited in claims 11, 21, 31, and 39 including a substrate 2 made of glass. See col. 1, lines 41-45. Leroux et al. do not disclose a cathode substrate wherein the substrate 2 made of soda-lime glass. The selection of known materials for a known purpose is generally considered to be within the skill of the art. It would have been obvious to use soda-lime glass, for the substrate 2, as disclosed by Leroux et al., because the selection of known materials for a known purpose is generally considered to be within the skill of the art.

Referring to claims 14, 24, 34, and 42, Leroux et al. disclose a cathode substrate as recited in claims 11, 21, 31, and 39 including a cap layer 4. Leroux et al. are silent as to the thickness of the cap layer 4. The specification of a suitable thickness is within the skill of the art. It would have been obvious to specify a suitable thickness for the

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cap layer 4, because changes in size are generally considered to be within the skill of the art.

Claims 16, 26, 36, and 44 are rejected for the same reason as claims 12, 22, 32, and 40.

Response to Arguments

Applicant's arguments filed on 01 March 2004 have been fully considered but they are not persuasive for following reasons:

Applicant alleges that light absorbing layer 52 is not within the layer 4 but is disposed above layer 4. Examiner agrees.

Claim limitation recites a cap layer having an antireflective coating within it. However, applicant misread cap layer as silica layer 4. Cap layer of Leroux et al. consist of two layers a silica layer 4 and an anti-reflective or light blocking layer 52 on the silica layer, then a conductive layer 5 is disposed on it which is same as applicant's Fig 3 & Fig 4, where cap layer 42 consists of layer 44 and antireflection or light blocking layer 45, on top of which a conductive layer 36 is formed, thus the argument of under layer 52 not within cap layer is not valid.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within

TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karabi Guharay whose telephone number is (571) 272-2452. The examiner can normally be reached on Monday-Friday 8:30 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimeshkumar D. Patel can be reached on (571) 272-2457. The fax phone number for the organization is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Karabi Guharau Karabi Guharay (Patent Examiner Art Unit 2879

> ASHOK PATEL PRIMARY EXAMINER